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Assumed mean places of stars, 1857·0.

		h m s	° ′ ″
a	Lal. 42416 and Bessel	21 37 30·00	62 48 24·0
b	— 42436 and Bessel	21 38 56·10	63 39 25·0
c	— 1222 and Rümker	0 38 40·10	43 53 19·0
d	— 1314 and Oeltzen	0 41 31·50	44 16 15·0

Elements computed by Dr. Donati of Florence were forwarded by Mr. Drach. The most reliable up to the present time are, however, those of Mr. Pape of Altona, viz.

T	March 21·39349 Berlin M.T.	
	° ′ ″	
π	74 49 11·4	M. Eq. 1857·0
☊	313 12 58·2	
i	87 57 6·7	
Log. *q*	9·887693	Motion direct.

From these are deduced the following approximate positions for April, at Berlin midnight:—

	R.A.	N.P.D.		R.A.	N.P.D.
	h m s	° ′		h m s	° ′
April 3	3 1 56	46 10	April 9	4 3 20	51 31
4	13 26	46 55	10	11 54	52 32
5	24 24	47 45	11	20 0	53 34
6	34 52	48 38	12	27 40	54 35
7	44 52	49 33	13	34 56	55 37
8	3 54 20	50 31	14	4 41 48	56 40

A second comet was discovered by Dr. Bruhns at Berlin, on the 18th of March. Dr. Bruhns and Dr. Forster found as its position—

Berlin M.T.	R.A.	N.P.D.
March 18d 8h 28m 30s·6	30° 49′ 54″·3	81° 40′ 30″·0

Both this and the comet of D'Arrest were comparatively bright at the time of discovery. No English observations have yet reached the Editor, from the unfavourable state of the weather the last week.

Dr. Bruhns has computed elements from Berlin observations on March 18, 19, and 20; which, as Mr. Pape has pointed out, bear a general resemblance to those of the third comet of 1846, as calculated by Dr. Van Galen for the present year.

	Comet II. 1857. Dr. Bruhns.			Comet III. 1846. Dr. Van Galen.	
T	March 24·9877 B.M.T.		T	1857, June 25·77224 G.M.T.	
	° ′ ″			° ′ ″	
π	119 36 34·3	App. Eq.	π	115 35 11·93	M. Eq. June 25.
☊	116 10 50·4		☊	101 54 2·67	
i	24 8 23·5		*i*	30 6 37·28	
Log. *q*	9·759140		φ	53 35 31·93	
Motion direct.			*n*	627″·1483	
			Log. *a*	0·5017575	

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The third comet of 1846 was expected to return to perihelion in November 1851, but though sought for on all available opportunities at Cambridge and elsewhere, was not re-discovered in that year. A second return was fixed, as above, by Dr. Van Galen, for the end of June in the present year. The Editor fears that the readers of the *Monthly Notices* must be content to suspend their opinion on the possibility of the two orbits above given being reconcileable, until the new comet has been sufficiently observed for the computer to ascertain whether its elements are also elliptic. Not many days will be required for this purpose.

Mr. Bruhns has calculated the following Ephemeris for Berlin midnight from his parabolic elements :—

	R.A.	N.P.D.		R.A.	N.P.D.
	h m s	° ′		h m s	° ′
April 3	3 0 26	62 11	April 9	3 25 16	52 59
4	4 17	60 44	10	30 0	51 22
5	8 13	59 14	11	34 59	49 42
6	12 15	57 43	12	40 15	48 2
7	16 25	56 10	13	45 50	46 20
8	3 20 45	54 36	14	3 51 45	44 37

The comet will be visible throughout the month of May.

ERRATA.

Vol. XVI. No. 6, page 155, *Thetis*, 1856, March 11, M.S.T. of Observation, *for* $14^{h}22^{m}35^{s}\cdot4$, *read* $14^{h}22^{m}45^{s}\cdot4$; Apparent R.A., *for* $13^{h}42^{m}16^{s}\cdot29$, *read* $13^{h}42^{m}26^{s}\cdot29$.

Vol. XVII. page 36, line 11, *for* weight of tube, *read* weight of tube per square foot.

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Appendix to No. 5, *Vol. XVII.*

The receipt of No. 1076 of the *Astronomische Nachrichten* enables the Editor to supply the additional and interesting intelligence that the comet of Dr. Bruhns proves to be identical with that of Brorsen, as suspected by Mr. Pape. An independent computation of approximate elliptic elements from observations made on March 18, 20, and 24, led at once to the adoption of a considerable angle of eccentricity, and justified Mr. Pape in assuming that a modification of the elements of Van Galen of admissible (though of unexpected) amount would suffice for the representation of the observations of the present year. He has thus found—

$$
\begin{array}{rl}
T = & \text{March } 29{\cdot}22503 \text{ Berlin M.T.} \\
 & \;\;{}^{\circ}\quad\;\; {}' \quad\;\; {}'' \\
\pi = & 115\ 52\ 15{\cdot}6 \\
\Omega = & 101\ 59\ 30{\cdot}8
\end{array}
\left.\vphantom{\begin{array}{l}a\\b\end{array}}\right\}\ \text{M. Eq. } 1857{\cdot}0
$$

$$
\begin{array}{rl}
i = & 29\ 42\ 46{\cdot}7 \\
\varphi = & 53\ 21\ \ 0{\cdot}0 \\
\text{Log } a = & 0{\cdot}496045
\end{array}
$$

from which he has computed the following short Ephemeris for immediate use :—

For Berlin Midnight.

	R.A.	N.P.D.		R.A.	N.P.D.
1857	h m s	° ′	1857	h m s	° ′
April 1	2 54 38	66 4·1	April 9	3 24 54	56 16·9
2	2 58 2	64 53·8	10	3 29 23	55 0·7
3	3 1 32	63 42·5	11	3 34 7	53 44·2
4	3 5 8	62 30·4	12	3 39 9	52 27·4
5	3 8 50	61 17·3	13	3 44 29	51 10·2
6	3 12 38	60 3·4	14	3 50 9	49 52·8
7	3 16 34	58 48·6	15	3 56 9	48 35·3
8	3 20 38	57 33·1	16	4 2 29	47 17·7

A more extended Ephemeris will be supplied shortly.

R. C. C.